

Chapter 5: Plan Development Considerations

5.1 Constructability Considerations

1. Earthwork balance through project (Are we constructing areas of fill before the areas of borrow where we will be getting the earth?)
2. Tie in/grade differences
3. Grade changes at –Y– lines
4. Utility issues
5. Temporary Shoring- needs, locations, quantities, etc.
6. Temporary pavement
7. Drainage/pipes, culverts- depth, installation, sags in Roadway, super-elevations, where will water go during construction?, etc.
8. Phasing of drainage: For instance, build ½ of road then other ½ of road, how will this affect the pipes installation/ drainage
9. Drainage slope, pipes, CB installation and conflicts with temp alignments
10. Stream relocations
11. Phasing clarity, safety, constructability
12. Stabilization as it relates to construction phasing and intersections
13. Undercut
14. Cross over wedging and drop offs
15. Width of temporary bridge to be used - coordinate with Division; Reason: Temporary bridge may require a larger footprint (including sub-structure) than what has been provided. This can effect shoring requirements and locations.
16. Can you begin construction of bridge before closing the road?
17. Make sure everything that is supposed to be constructed is constructed.

5.2 Safety Considerations

1. For new location, which –Y– lines are being crossed?
2. Changes in traffic patterns/ intersection changes
3. Crash data on project. Are there any roadway improvements needed?
4. Site distances for lane closures both vertical and horizontal
5. Advisory Speed Panels

5.3 Mobility Considerations

1. What projects are surrounding the one you are working on?
2. Pedestrian/Bike issues? Detours required?

5.4 Other Considerations

1. User cost (especially pertaining to contract times)
2. Time Restrictions, ICTs, etc.
3. Moratoriums (and how they affect TMP)
4. Environmental commitments
5. Environmental Documents
6. Overhead signs and are they included in TMP (even off project limits)
7. Signal installation (on and off project limits- loop installation on existing road even though project is new location, etc.)
8. Pavement design typical sections for final layer (1 ½" or 2" for asphalt)? Is diamond grinding specified for concrete pavement?

5.5 Coordination Considerations

1. ADA and pedestrian issues
2. Cooperation between contractors clause needed in contract?
3. Changes in cross sections or typical sections after 25% roadway plans?
4. Is coordination with Railroad necessary?
5. Is coordination with EMS or schools necessary?

5.6 Temporary Pavement Considerations

1. Conflicts at intersections in pavement marking plans
2. Design pavement marking for best traffic operations
3. Crosswalks
4. Tie pavement markings to existing